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Tentative Program

3rd International Conference on

Systems and Synthetic Biology

July 20-21, 2017 Munich, Germany

Meeting the needs of a changing world



For available speaker slots

syntheticbiology@conferenceseries.net

300+ Participation

- 14+ Interactive Sessions
- 15+ Keynote Lectures
- 75+ Plenary Lectures
- 5+ Workshops

Conference Secretariat

5716 Corsa Ave., Suite 110, West Lake, Los Angeles, CA 91362-7354, USA

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http://syntheticbiology.conferenceseries.com/

Tentative Agenda

Day 1			
Morning Sessions	**Reception/Registration**		
		Time	**General Session**
		Inaugural Address	
	List of Keynote/Plenary Talks		Keynote/Plenary 1
			Keynote/Plenary 2
			Keynote/Plenary 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break (Networking)		
	Systems and synthetic biology, systems biology and synthetic genomics		
Evening Sessions	Gene synthesis, synthetic gene networks , synthetic Engineering ,synthetic Chemistry Plant synthetic biology		
	Lunch Break		
	Synthetic technology, synthetic Biology Business, and Pharmaceutical Biology		
	Cellular Systems Biology, Mammalian synthetic Biology ,Industrial Systems and Synthetic Biology		
	Coffee/Tea Break (Networking)		
	Workshop		

Day 2				
Morning Sessions		**Time**	**Session 1**	**Session 2**
	09.00-10.40		Keynote Forum	Systems and synthetic Biology
	Coffee/Tea Break (Networking)			
	Pharmaceutical Biology, Integrative Biology and Protein Engineering			
	Biophysics			
Evening Sessions	**Lunch Break**			
	Next generation Sequencing, Biosensors and Bio Electronics			
	Applications of synthetic Biology and Computational systems Biology			
	Coffee/Tea Break (Networking)			
	Awards & Closing Ceremony			

NOTE: Program Schedule is subject to change with final allotment of the speaker slots

Glimpses of Previous Conference


























Speaker Representatives
Collaborations




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Major Scientific Sessions

- systems and synthetic Biology
- Systems biology
- Synthetic genomics
- Gene synthesis
- Synthetic Gene Networks
- Synthetic Engineering
- Synthetic Chemistry
- Plant synthetic Biology
- Synthetic technology
- Synthetic Biology Business
- Pharmaceutical Biology
- Computational systems Biology
- Cellular systems Biology
- Mammalian synthetic Biology
- Industrial systems and synthetic biology
- Integrative Biology
- Protein engineering
- Metabolomics
- Biophysics
- Next generation sequencing
- Biosensors and Bio electronics
- Applications of synthetic Biology

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries

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About Munich

Like many cities, Munich started out as a small town enclosed by a wall and then expanded beyond it. The ‘inner city’ occupies such a small area that everything is close and easy to visit, and you’ll get a sense of the original wall, indeed, the gates still remain. The river Isar flows through the city and it is generally a very green place. The enormous Englischer Garten is a park with a boating lake and beer garden (of course) and is well worth a visit.

Munich is the largest city in the south of Germany and is about an hour and a half drive from the Alps. Most of the time the mountains are just a dark unclear shadow on the horizon, but with the right weather conditions - specifically a special wind called the Foehn - , they become crystal and beautifully clear. This is when the postcard pictures get taken. Munich is very close to Austria, Switzerland and after a short hop through Austria, also Italy. It is a mostly flat place and has true continental weather i.e. very warm in the summer, and very cold in the winter. The summer sees quite a few thunderstorms in the evenings, but far more beautiful sunsets. If you come in the winter, bring really warm clothes, in summer the nights are balmy but bring a small umbrella just in case. Under an hours drive away to the south (with train connections too of course) are the lakes which is where many Muncheners head for during the summer months. These are glacial lakes, and therefore deep and cold till well into summer, though there are also smaller ones which warm up more quickly

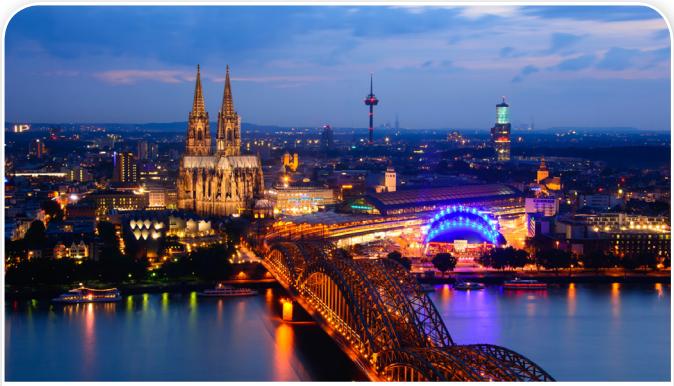


City Attractions in Munich, Germany

















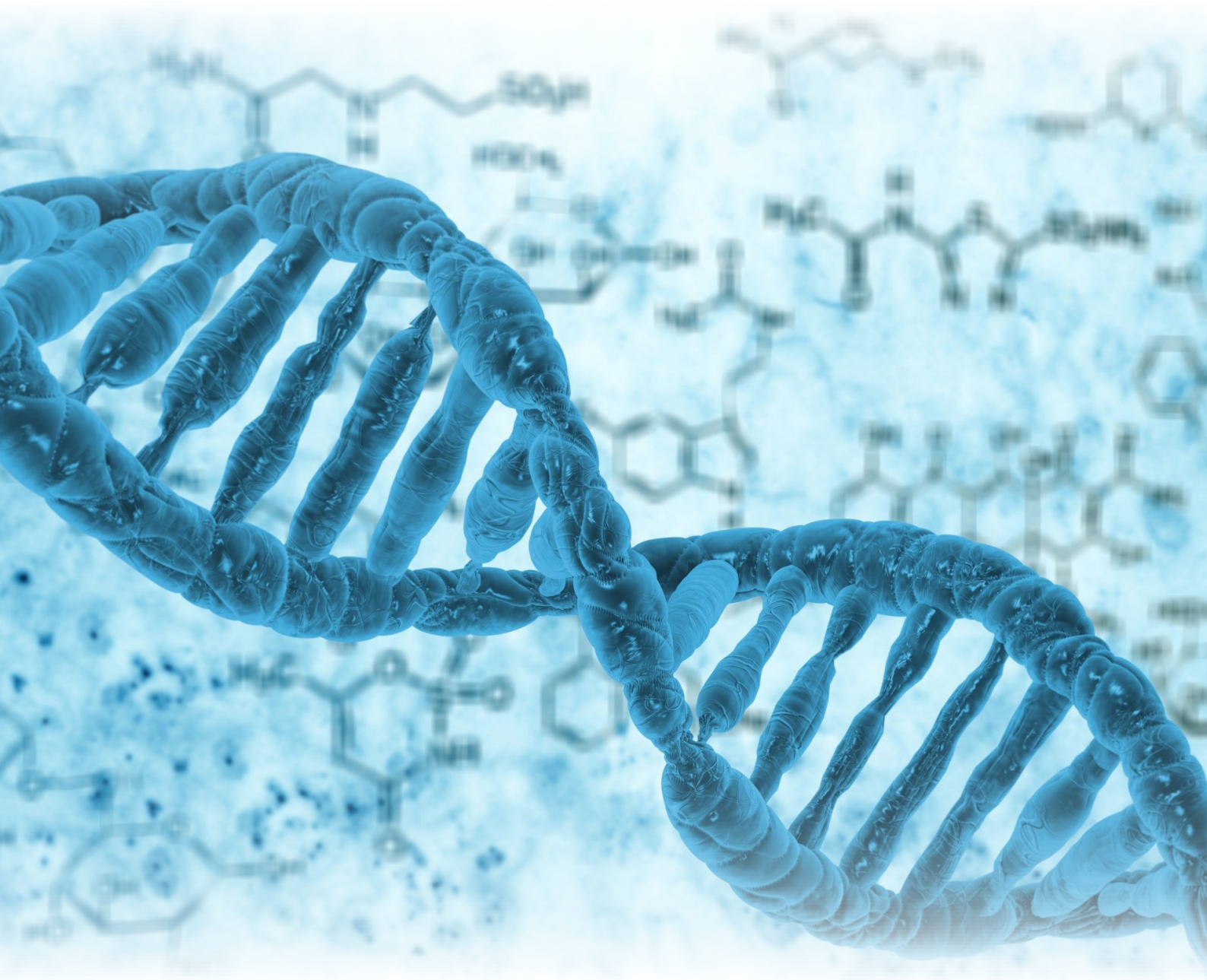
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621st Conference

Scientific Program

2nd International Conference on

Systems & Synthetic Biology

August 18-20, 2016 London, UK



Hosting Organization: Conference Series LLC
2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA
Ph: +1-702-508-5200 Ext: 8047, Fax: +1-650-618-1417, Toll free: +1-800-216-6499
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Email: syntheticbiology@conferenceseries.net, syntheticbiology@conferenceseries.com

Scientific Program

Day 1 August 18, 2016

Registrations

Kennedy

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Opening Ceremony

Keynote Forum

Title: Synthetic mRNAs as optimized tools for stem cell generation and for manipulating cellular phenotypes
Guido Krupp, AmpTec GmbH, Germany
Title: Enhancing the synthetic IQ of CAR T-cells
Michael Jensen, Seattle Children's Research Institute, USA

Networking & Refreshment Break @ Foyer

Session: Structural Biology | Integrative Biology | Protein Engineering | Industrial Systems and Synthetic Biology | Biotechnology Advances | Metabolomics

Session Introduction

Session Chair: Guido Krupp, AmpTec GmbH, Germany
Session Co-Chair: Roberto Mazzoli, University of Torino, Italy

Title: Use of synthetic proteins and future trends: The example of calstabin
Jean A Boutin, Institut de recherches SERVIER, France
Title: Construction of recombinant cellulolytic microorganisms for cellulose consolidated bioprocessing by metabolic engineering: Achievements, hurdles and perspectives
Roberto Mazzoli, University of Torino, Italy
Title: Solving of the structural heterogeneity of human catalytic antibody light chains and the role of the constant domain
Taizo Uda, Oita University, Japan

Lunch Break @ Orwell's Brasserie

Special Session: **Automation at the heart of synthetic biology**
by **Paul Lomax,** TTP Labtech, UK

Title: Biological features of human catalytic antibody light chains possessing the ability against the infection of influenza virus
Emi Hifumi, Oita University, Japan
Title: Lactic acid bacteria for nutraceuticals and added value products production
Enrica Pessione, University of Torino, Italy

Networking & Refreshment Break - @ Foyer

Title: MicroRNAs: Potential biomarkers and therapeutic targets in osteoarthritis
Mohit Kapoor, University Health Network, Canada
Title: Design of artificial anaerobic microbial community for bioremediation
Arata Katayama, Nagoya University, Japan
Title: Exploring unique compounds from lignin degradation using MnSOD and Dyp-type peroxidase enzymes
Sharon Mendel Williams, Coventry University, UK

Special Session: **Biosecurity and how export controls impact the life sciences**
by **Betty Lee,** United States Department of Commerce, USA

Panel Discussion

Day 2 August 19, 2016

Kennedy

Keynote Forum

Title: A computer model simulating human glucose absorption and metabolism in health and metabolic disease states
Richard J Naftalin, King's College London, UK

Session: **Synthetic Genomics | Synthetic Gene Network | Gene Synthesis | Biophysics | Bio-Sensors and Bio-Electronics | Next Generation Sequencing | Computational Systems Biology | Pharmaceutical Biology**

Session Introduction

Session Chair: Anthony C Forster, Uppsala University, Sweden
Session Co-Chair: Martin Falk, Czech Academy of Sciences, Czech Republic

Title: NextGen SynBio: Synthetic genomics and drug discovery
Anthony C Forster, Uppsala University, Sweden

Title: Towards a complex view on DNA damage and repair: Epigenetic and spatio-temporal aspects
Martin Falk, Czech Academy of Sciences, Czech Republic

Networking & Refreshment Break @ Foyer

Title: Selection systems for a-type and α-type yeasts using cell-type-specific transcriptional regulation machinery
Nobuo Fukuda, National Institute of Advanced Industrial Science and Technology, Japan
Title: Designable RNA architectures for rapidly engineering and analyzing synthetic metabolisms
James M Carothers, University of Washington, USA
Title: The assembly of 2D and 3D droplet interface bilayers from cell-sized droplets using optical tweezers
Mark S Friddin, Imperial College London, UK
Title: Real-world microfluidic analytics applications in the pharmaceutical biotech industry
Hector Hugo Caicedo, Pharmaceutical Companies of Johnson & Johnson, USA
Title: Spatial control of biochemical modification pathways and cascades
Krishnan, Imperial College London, UK

Lunch Break @ Orwell's Brasserie

Session Chair: Richard J Naftalin, King's College London, UK
Session Co-Chair: Roberto Mazzoli, University of Torino, Italy

Title: Cyanobacteria as photosynthetic biofuel factories: Synthetic biology methods in the development of next-generation production platforms
Pauli Kallio, University of Turku, Finland

Young Research Forum

Title: Engineering listeriolysin O for specific pore formation *in vitro*
Sasa Rezelj, National Institute of Chemistry, Slovenia
Title: Engineering of *Saccharomyces cerevisiae* toward n-butanol production
Reem Swidah, The University of Manchester, UK
Title: Towards cellulose consolidated bioprocessing into biofuel through recombinant *Clostridium cellulovoran:* Detailed analysis of the central metabolism and development of optimized gene manipulation tools
Chiara Gandini, University of Torino, Italy
Title: Engineering a mini-cellulosome in *Lactococcus lactis* for direct conversion of cellulose in lactic acid: Cloning and expression of recombinant scaffoldin proteins
Loredana Tarraran, University of Torino, Italy

Networking & Refreshment Break @ Foyer

Title: Recombinant *Lactococcus lactis* for efficient conversion of cello-oligosaccharides into L-lactic acid
Denis Kalemasi, University of Torino, Italy
Title: Cell junction, oxidative stress, inflammation and gene polymorphism: Are they clues to myocardial infarction?
Ingy Hashad, German University in Cairo, Egypt
Title: Use of the *Arabidopsis* MAGIC population to identify genes involved in phosphate use efficiency
Azizah Nahari, The University of Edinburgh, UK
Title: Evolution and diversification of alcohol dehydrogenases in the monoterpene indole alkaloid pathway of *Catharanthus roseus*
Anna K Stavrinides, John Innes Centre, UK

Panel Discussion

Day 3 August 20, 2016

Extended Networking Session & Lunch @ Orwell's Brasserie

OMICS International
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Scientific Program

International Conference on
Synthetic Biology

September 28-29, 2015 Houston, USA



OMICS International Conferences

2360 Corporate Circle., Suite 400, Henderson NV 89074-7722, USA

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Scientific Program

Day 1 September 28, 2015

Registrations

Canterbury

Opening Ceremony

Keynote Forum

Introduction

Title: Recent advancement and developments in synthetic biology

Vsevolod V (Seva) Gurevich, Vanderbilt University Medical Center, USA

Group Photo

Coffee Break @ Windsor-II

Title: Synthetic RNA molecule mitigates HIV-induced apoptosis of cardiomyocytes and also prevents HIV infection

Makobetsa Khati, CSIR Biosciences, South Africa

Title: Tissue and organ fabrication for the heart

Ravi K Birla, University of Houston, USA

Workshop on **Prospects of synthetic molecules in medicine** by **Makobetsa Khati,** CSIR Biosciences, South Africa

Lunch Break @ Windsor-II

Workshop on **Recent advances in Cardiac tissue engineering** by **Ravi K Birla,** University of Houston, USA

Track 1 : Protein Engineering Design and Selection
Track 10 : Industrial Synthetic Biology

Track 11: Animal Cell and Tissue Engineering

Chair: Ravi K Birla, University of Houston, USA
Co-chair: Makobetsa Khati, CSIR Biosciences, South Africa

Session Introduction

Title: Conversion of adipogenic mesenchymal stem cells into mature cardiac myocytes

Robert J Schwartz, University of Houston, USA

Title: Engineering signaling-biased arrestins for targeted regulation of cell behavior

Vsevolod V (Seva) Gurevich, Vanderbilt University, USA

Coffee Break @ Windsor-II

Title: Dissecting the roles of the scaffold protein IQGAP1 in epithelial cell maturation

Volker Schweikhard, Rice University, USA

Title: Olive biotechnology: The assessment of tissue culture induced genetic variability in olive (*Olea europaea*) by molecular markers

Masoud Sheidai, Shahid Behesti University, Iran

Panel Discussion

Day 2 September 29, 2015

Canterbury

Keynote Forum

Title: Modulation of estrogen receptor activity by 27-hydroxycholesterol and its mechanisms of action

Michi Umetani, University of Houston, USA

Title: Structural alterations of leukocyte integrin, LFA

Mehmet Sen, Harvard Medical School, USA

Coffee Break @ Windsor-II

Workshop on **Redesigning proteins, one function at a time**
by **Vsevolod V (Seva) Gurevich,** Vanderbilt University Medical Center, USA

Track 3 : Molecular Modeling and Drug Designing
Track 5 : Development of Recombinant-DNA technology
Track 9 : Computational Biology
Track 11 : Animal Cell and Tissue Engineering

Chair: Vsevolod V (Seva) Gurevich, Vanderbilt University Medical Center, USA
Co-chair: Pushpa Agrawal, R. V. College of Engineering, India

Session Introduction

Title: Metabolic engineering of a high biomass C4 grass for commercial scale production of bioplastics
Stevens M Brumbley, University of North Texas, USA

Lunch Break @ Windsor-II

Title: Biological synthesis of gold nanoparticles & test for cytotoxicity and anti-microbial activity
Pushpa Agrawal, R. V. College of Engineering, India
Title: Mass production of high fidelity oligonucleotides as feed stock of Post-genome-sequencing synthetic biology (PGS-SB)
Xiaolian Gao, University of Houston, USA
Title: Structural modeling of C5a receptor: Molecular insights into agonism and antagonism
Soumendra Rana, Indian Institute of Technology Bhubaneswar, India

Panel Discussion

Coffee Break @ Windsor-II

Poster Presentations 15:50-16:50 @ Gallery

SYB-01	**Title: Controlled ultrasound cavitation for DNA delivery into bacteria and yeast**
	Gustavo Stadthagen, BIOASTER, France
SYB-02	**Title: Mitigation of poultry-borne campylobacteriosis by an engineered enteric commensal**
	Richard McLean, University of Lethbridge, Canada
SYB-03	**Title: Comparison of intracellular and extracellular cellulase production by recombinant bacterium Escherichia coli**
	Zehra Tatli, Hacettepe University, Turkey
SYB-04	**Title: *In silico* molecular docking of ligands for inhibition of L-amino acid oxidase from *Calloselasma rhodostoma***
	Neema K N, Sri Jayachamarajendra College of Engineering, India
SYB-05	**Title: Screening of phytochemicals for the inhibition of JAK2 by molecular docking**
	Shalini Koshle, Sri Jayachamarajendra College of Engineering, India

Panel Discussion

Closing Ceremony

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557th Conference

Scientific Program

4th International Conference on

Integrative Biology

July 18-20, 2016 Berlin, Germany



Conference Series LLC

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA **Ph:** +1 702 508 5200 **Ext:** 8033

e-mail: integrativebiology@conferenceseries.net; integrativebiology@geneticsmeetings.com

Registrations

Experience II

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Opening Ceremony

Keynote Forum

Title: Virtualized drug development for (truly) personalized drug therapy
Hans Lehrach, Max Planck Institute for Molecular Genetics, Germany

Title: The retinoic acid receptor controls the mechanobiology in pancreatic stellate cells to suppress matrix remodeling and inhibit cancer cell invasion
Armando del Rio Hernandez, Imperial College London, UK

Networking & Refreshment Break @ Main Lobby

Title: Structural basis of pre-mRNA splicing
Reinhard Lührmann, Max Planck Institute for Biophysical Chemistry, Germany
Title: Chemical biology directed to anti-infective drug discovery
Mark Brönstrup, Helmholtz Centre for Infection Research, Germany

Session Introduction

Sessions: Cell Biology | Developmental Biology | Stem Cell Biology | Tissue Biology

Session Chair: Anja Nohe, University of Delaware, USA
Session Co-Chair: Jamila Chakir, Laval University, Canada

Title: Potential targets of VIVIPAROUS1/ABI3-LIKE1 (VAL1) repression in developing *Arabidopsis thaliana* embryos
Eva Collakova, Virginia Tech, USA
Title: Hybrid PCL/chitosan scaffolds with micro and macro porosity
Hilal Turkoglu Sasmazel, Atilim University, Turkey
Tittle: Regulation of inflammatory and anti-apoptotic responses through the IL–1RI/TILRR complex
Eva Qwanstrom, University of Sheffield, United Kingdom

Lunch Break: @ Element I+II Restaurant

Title: New treatments for articular cartilage formation and repair
Anja Nohe, University of Delaware, USA
Title: The mechanobiology of muscle nuclei: Mechanism and functional significance
Talila Volk, Weizmann Institute of Science, Israel
Title: Protein replacement therapy for mitochondrial disorders: New hopes for incurable diseases
Haya Lorberboum-Galski, The Hebrew University of Jerusalem, Israel
Title: Investigation of sensory interface relaying information from cerebrospinal fluid to motor circuits
Claire Wyart, Institut du Cerveau et de la Moelle épinière-UPMC CNRS, France
Title: microRNAge: The role of microRNAs in aging of the *Drosophila* germline stem cell niche
Hila Toledano, University of Haifa, Israel
Title: Radio-sensitization of clioquinol and zinc ion in human cancer cells
Yu Haijun and Yunfeng Zhou, Zhongnan Hospital of Wuhan University, China
Title: Dissecting the mechanisms of liquid to solid phase transition associated with neurodegenerative diseases
Avinash Patel, Max Planck Institute of Molecular Cell Biology and Genetics, Germany

Networking & Refreshment Break @ Main Lobby

Tittle: Actin and annexin A2: Essential partners of neuroendocrine secretion
Chasserot-Golaz Sylvette, Institute of Cellular and Integrative Neurosciences, France
Title: Tissue engineering concept of a model of airway bronchial mucosa
Jamila Chakir, Laval University, Canada
Title: Importance of Myc-related microRNAs in induced pluripotency
E. Sacide Çaglayan, Yıldırım Beyazıt University, Turkey

Title: Neogenin expression may be inversely correlated to the tumorigenicity of human lung cancer
Yu Liu, Zhongnan Hospital of Wuhan University, China

Title: Proteolytic maturation of *Drosophila* neuroligin3 in central nervous system
Jun Wu, Southeast University, China
Title: Chondrogenic and possible pathologic effects of PRP on adipose derived MSCs
Arezou Pakfar, Islamic Azad University, Iran
Title: The effect of biosynthesized *Rhazya stricta* leaf extracts with gold nanoparticles on breast cancer cell lines
Mohammed Nabih Baeshen, University of Jeddah, KSA

Panel Discussion

Day 2 July 19, 2016

Experience II

Special session by Nobel Laureate Ada Yonath

Title: Novel antibiotics against species-specific resistance, microbiome conservation and environmental preservation
Ada Yonath, Weizmann Institute, Israel

Keynote Forum

Title: How is the chirality information transferred during the mollusk development?
Reiko Kuroda, Tokyo University of Science, Japan

Networking & Refreshment Break @ Main Lobby

Sessions: Molecular Biology | Structural Biology

Session Chair: Michael Kolbe, Max Planck Institute for Infection Biology, Germany
Session Chair: Alexei V Finkelstein, Russian Academy of Sciences, Russia

Session Introduction

Title: There and back again: Two views on the protein folding puzzle
Alexei V Finkelstein, Russian Academy of Sciences, Russia
Title: The bacterial type 3 secretion system: Structure function analysis of a molecular syringe
Michael Kolbe, Max Planck Institute for Infection Biology, Germany
Title: Proteasome dynamics
Cordula Enenkel, University of Toronto, Canada
Title: Non-coding RNAs: An integrative biology hope for anxiety-related syndromes
Hermona Soreq, The Hebrew University of Jerusalem, Israel
Title: The foldback intercoil DNA
Byung-Dong Kim, Seoul National University, South Korea
Title: Structural basis of DNA gating by gyrase and topoisomerase IV and its inhibition by antibacterial therapeutics
Larry Mark Fisher, University of London, UK

Lunch Break: @ Element I+II Restaurant

Title: The relationship between the structural properties of p53 binding sites and p53-dependent gene expression
Tali Haran, Technion-Israel Institute of Technology, Israel
Title: Bacterial genetics and structural biology for decoding the ubiquitin code
Gali Prag, Tel Aviv University, Israel
Title: Mechanically-induced protein structural changes in fibrin hydrogels using hyperspectral CARS microscopy
Sapun H Parekh, Max Planck Institute for Polymer Research, Germany
Title: Extrachromosomal circular DNA: A key player in creation of copy number variation
Henrik Devitt Møller, University of Copenhagen, Denmark
Title: Exposure to early life stress and glucocorticoids: Mechanisms of system-wide epigenetic effects
Nadine Provençal, Max Planck Institute of Psychiatry, Germany

Poster Competition and Refreshment Break @ Main Lobby

IB- 01 **Title: Synergistic antimicrobial effects and GC-MS analysis of phytocomponents of *Commiphora quadricincta***
Nehad Mahmoud Gumgumjee, King Abdulaziz University, KSA

IB- 02 **Title: Antibacterial and phytochemical properties of Qutran (wood tar) from *Olea europaea* subsp. cuspidate growing in Saudi Arabia (Al Bahah district)**
Abdul Rahman Hajar, King Abdulaziz University, KSA

IB- 03 **Title: Identification of tissue specific cell death using methylation patterns of circulating DNA**
Daniel Neiman, The Hebrew University-Hadassah Medical School, Israel

IB- 04 **Title: Adipose-derived stromal cell cluster with light therapy enhance angiogenesis and skin wound healing in mice**
In-Su Park, Dankook University, South Korea

IB- 05 **Title: Evaluation of somatic point mutations associated to splicing mechanisms in colorectal cancer**
Joice de Faria Poloni, Federal University of Rio Grande do Sul, Brazil

IB- 06 **Title: Screening the effect of different extraction methods for callus extracts of cassava (*Manihot esculenta*) plants using polar and non polar solvents as anti-breast cancer cell growth**
Nermeen M Arafa, National Research Centre, Egypt

Title: Identification of non-intuitive biomarkers predicting dependency on AKT vs. MAPK signaling of ERBB2+ cancer cells using an integrated experimental and computational framework
Jinyan Du, Merrimack Pharmaceuticals Inc., USA
Title: The genetics of aortic valve disease
Mona Nemer, University of Ottawa, Canada
Title: Effect of porcine CD14 *gene* RNAi on the expression of toll-like receptor 4 pathway-related genes, the level of pro-inflammatory cytokines and adhesion ability to *Escherichia coli*
Chaohui Dai, Yangzhou University, China
Title: Radio-sensitization of clioquinol and zinc ion in human cancer cells
Ying Liu, Yangzhou University, China

Panel Discussion

Day 3 July 20, 2016

Experience II

Sessions: Systems Biology | Bioinformatics | Bioengineering | Bioimaging

Session Chair: Bernard Korzeniewski, Jagiellonian University, Poland
Session Chair: Mahmoud Rouabhia, Laval University, Canada

Session Introduction

Title: Regulation of oxidative phosphorylation during work transitions and bioenergetic background of mitochondrial diseases
Bernard Korzeniewski, Jagiellonian University, Poland
Title: Novel methods for integrative modeling of biomedical data
Vanathi Gopalakrishnan, University of Pittsburgh School of Medicine, USA
Title: Mutational interference mapping experiment (MIME) for studying RNA structure and function
Max von Kleist, Freie Universität Berlin, Germany
Title: Cellular systems biology of chromosome dynamics
Karen Lipkow, University of Cambridge, UK

Networking & Refreshment Break @ Main Lobby

Title: MHC I and antigen selection: Immune system modeling integrates cellular function with structural plasticity
Jorn M Werner, University of Southampton, UK
Title: Investigating functional relationships of five critical genes present in the familial non-synonymous loci with risk of having acute lymphoblastic leukemia
Erchin Serpedin, Texas A&M University, USA
Title: Energy anabolism as a modulator of adaptation across domains of life
Daniel H Shain, Rutgers University, USA

Title: Conformational study of a mutated protein complex in xeroderma pigmentosum disease using molecular dynamics and residue interaction networks
Bruno César Feltes, Federal University of Rio Grande do Sul, Brazil

Title: Robust patterning of gene expression based on internal coordinate system of cells
Ken-ichro Ogawa, Tokyo Institute of Technology, Japan
Title: Super-resolution imaging of intrinsically fast moving flagellates
Susanne Franziska Fenz, University of Wurzburg, Germany

Lunch Break: @ Element I+II Restaurant

Title: Fabrication of high biocompatible Pt-nylon and Pt-silk composite materials by supercritical carbon dioxide-assited metallization method
Tso-Fu Mark Chang, Tokyo Institute of Technology, Japan
Title: Electrical stimulation as a tool to accelerate cutaneous regeneration and wound repair
Mahmoud Rouabhia, Laval University, Canada
Title: Synthesis of molybdenum disulphide (MoS^2) gadolinium complex with core shell structure used as *in vivo* MRI
Rajeshkumar Anbazhagan, National Taiwan University of Science and Technology, Taiwan

Thanks giving & Closing ceremony

OMICS International
conferenceseries.com

Scientific Program

313th OMICS International Conference

3rd International Conference on
Integrative Biology

Valencia, Spain August 04-06, 2015



Organize your Events at OMICS International Conferences

Proposals are invited for organizing Symposia/Workshops at OMICS International Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS International Conferences
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Day 1 August 04, 2015

Registrations

Opening Ceremony

Keynote Forum

Introduction

Title: Ultra low power cytomimetic VLSI circuits: Synthesis method & proof-of-concept results

Emmanuel Mic. Drakakis, Imperial College London, UK

Title: Integration of next-generation sequencing data with analytical chemistry, structural biology and cell biology

Peter L. Nagy, Columbia University, USA

Group Photo

Track 1: Genomics and Bioinformatics
Track 2: Integrative Computational Biology
Track 3: Drug Discovery and Integrative Biology

Session Chair: Jeffrey Zheng, Yunnan University, China
Session Co-chair: Dang Duong Bang, Technical University of Denmark, Denmark

Session Introduction

Title: Variant maps to identify coding and non-coding DNA sequences of genomes selected from multiple species
Jeffrey Zheng, Yunnan University, China
Title: Importance of Apolipoproteins in MS
Lidia Gardner, The University of Tennessee Health Science Center, USA

Title: Metamaterials-based label-free nanosensor for conformation and bioaffinity sensing
Cuong Cao, Queen's University Belfast, UK
Title: The phospholipid enzyme CTP:phosphoethanolamine cytidylyltransferase (Pcyt2) is a new target for oxidative stress therapy and ischemia
Bakovic Marica, University of Guelph, Canada
Title: Towards a total integrated Lab-on-a-chip system for food safety
Dang Duong Bang, Technical University of Denmark, Denmark
Title: Hypothetical proteins: Can they be the next drug targets?
Normi Mohd Yahaya, Universiti Putra Malaysia, Malaysia
Title: Lab-on-a-chip system with integrated sensors for 3D tissue engineering applications
Anders Wolff, Technical University of Denmark, Denmark
Title: Deciphering the epigenetic code with innovative insect models
Ryszard Maleszka, The Australian National University, Canberra

Lunch Break

Title: Synthesis and evaluation of new thienopyrimidine/pyridine derivatives as antitumoral and/or antiangiogenics
Maria-Joao R. P. Queiroz, University of Minho, Portugal
Title:Onychomycosis: 1064-nm Nd:YAG q-switch laser treatment
Hector Ricardo Galvan Garcia, University of Guadalajara, Mexico
Title:Natural cholinesterase inhibitors isolated from anatolian plants
Gulacti Topcu, Bezmialem Vakif University, Turkey
Title:Approaches for stimulating white rot fungi to accumulate bioactive polyphenols and flavonoids
Xiangqun Xu, Zhejiang Sci-Tech University, China
Title: Systematic identification and characteristics of long non-coding RNAs in of pigs
Zhonglin Tang, Chinese Academy of Agricultural Sciences, China

Networking & Refreshment Break

Workshop: Creative Approaches for Computational Genomics

Jeffrey Zheng, Yunnan University, China

Panel Discussion

Day 2 August 05, 2015

Track 4: Cell Biology
Track 5: Tissue Biology
Track 6: Developmental Biology

Session Chair: Anja Nohe, University of Delaware, USA
Session Co-chair: Nirmal K. Shetty, Shri Krishna Research Centre, India

Session Introduction

Title: Identifying new targets to improve skeletal formation in human
Anja Nohe, University of Delaware, USA
Title: Organization of avian thymic medulla and surfactant production
Imre Olah, Semmelweis University, Hungary
Title: Regulatory role of microRNA in severe asthma
Jamila Chakir, Laval University, Canada
Title: Stem cell biology and applications in preclinical experiments
Helena Barreto Henriksson, Sahlgrenska University Hospital, Sweden

Networking & Refreshment Break

Title: High density lipoprotein signaling in macrophages and its role in atherosclerosis protection
Bernardo L Trigatti, McMaster University. Canada
Title: New nomenclature for pedigree charts based on the novel pattern of inheritance of ancestral and parental chromosomes
Nirmal. K. Shetty, Shri Krishna Research Centre, India
Title: On the computational ability of the RNA polymerase II carboxy terminal domain
Jim Karagiannis, University of Western Ontario, UK
Title: Telomere/telomerase and radiosensitivity
Yunfeng Zhou and Wenbo Wang, Wuhan University, China
Title: Carboxyl terminus of Hsp70-interacting protein(CHIP) functions as a tumor suppressor and enhance the radiosensitivity in cervical cancer
Hui Yang, Wuhan University, China
Title: Antiangiogenic treatment in non-small cell lung cancer (NSCLC)
Ewa Maj, Polish Academy of Science, Poland
Title: The role of microRNA-125b in calcitriol-induced differentiation of human leukemia and lymphoma cells
Justyna Trynda, Polish Academy of Science, Poland
Title: Diagnosis of dengue infection using metabolome analysis (biomarker profiles)
Abdel-Hamid, National research centre, Egypt

Lunch Break

Track 10: Systems Biology

Session Chair: Robert A. Drewell, Clark University, USA
Session Co-chair: Jacqueline M. Dresch, Clark University, USA

Title: Decoding the regulatory architecture in Drosophila Hox gene enhancers
Robert A. Drewell, Clark University, USA
Title: Detecting nucleotide interdependency in transcription factor binding sites
Jacqueline M. Dresch, Clark University, USA
Title: Comparative network analysis of insulin resistance in caucasian and african americans
Bin Zhang, Icahn School of Medicine, USA
Title: Constructing a workflow based on breath and urinary metabolomics to go further on asthma management
Silvia M. Rocha, University of Aveiro, Portugal
Title: Systems Biology of nanocellulose synthesis: new approach to build a core metabolic model based on computational analysis
Samara Silva de Souza, Federal University of Santa Catarina, Brazil
Title: A new computational approach to graphically highlight regulation relationships in metabolic systems from chromatographic data
Nabil Semmar, Higher Institute of Applied Biological Sciences of Tunis, Tunisia

Networking & Refreshment Break

Poster Presentation

Day 3 August 06, 2015

Track 7: Bio-Engineering
Track 8: Systems Toxicology
Track 9: Ecology and Evolution

Session Chair: Armando del Rio Hernandez, Imperial College London, UK

Session Co-chair: Witold Chmielewski, Laval University, Canada

Session Introduction

Title: Repeated exposure to cigarette smoke increased gingival fibroblast proliferation, telomerase activity through the activation of cell cycle genes activity
Mahmoud Rouabhia and Witold Chmielewski, Laval University, Canada
Title: Apolipoprotein E4 mediated targeting of blood brain barrier using nano-micellar metal chelators for treatment of Alzheimer's disease
Fatemeh Bahadori, Bezmialem Vakif University, Turkey
Title: Integration of biocompatible MEMS by gold electrodeposition using supercritical carbon dioxide
Masato Sone, Tokyo Institute of Technology, Japan
Title: Nano-G metrology system and its biomedical applications by CMOS-MEMS technology
Daisuke Yamane, Tokyo Institute of Technology, Japan
Title: Ultra-low power wireless transceiver systems for biomedical application
Hiroyuki Ito, Tokyo Institute of Technology, Japan
Title: Treatment with laser Nd: YAG q-switch vs Ipl in superficial mycoses , deep and atypical mycobacteria
Hector Ricardo Galvan Garcia, University of Guadalajara, Mexico
Title: Therapeutic potential of mesenchymal stem cells to treat Achilles tendon injuries
Maria Helena Costa Vieira, Universidade Federal de Mato Grosso do Sul, Brasil

Networking & Refreshment Break

Closing Plenary Lecture: Switching off the forces that drive pancreatic cancer: Current and Future perspectives
Armando del Rio Hernandez, Imperial College London, United Kingdom

Panel Discussion

Lunch Break

Closing Ceremony

Poster Presentations

INB-001	**Title: The use of biotechnology to enhance tolerance of Micro-Tom tomato to salinity in Saudi Arabia** **Mourad A.M. Aboul-Soud,** King Saud University, Saudi Arabia
INB-002	**Title: Molecular classification of oils content: Antifungals, Antimicrobials** **Francisco Torrens,** University of Valencia, Spain
INB-003	**Title: Evaluation of pH effects on genomic integrity in adipose-derived mesenchymal stem cells using the comet assay** **Andreia Antoniolli,** Federal University of Mato Grosso do Sul, Brasil
INB-004	**Title: Towards Aspergillus niger diagnosis based on a molecular biomarkers pattern defined from exometabolome complex data** **Silvia M. Rocha,** University of Aveiro, Portugal
INB-005	**Title: Transcriptomic and tissue culture approaches for production of Amaryllidaceae alkaloids** **Aleya Ferdausi, U**niversity of Liverpool, UK
INB-006	**Title: Fluorescence studies of new potential antitumoral N-(2 and 3-methoxyphenyl)thieno[3,2-b]pyridin-7-amines encapsulated in nanoliposomes** **Maria Joao R. P. Queiroz,** University of Minho, Portugal
INB-007	**Title: Upregulation of miR-29a and genomic DNA hypermethylation in normal karyotype AML showing DNMT3A mutation** **Maria Mirto,** University of Palermo, Italia
INB-008	**Title: Somatic embryogenesis and double haploid techniques for improvement of mutant wheat** **Ayse SEN,** Istanbul University, Turkey
INB-009	**Title: Functional genomic analysis of Comamonastestosteronistrain P19 degrading aromatic compounds** **Jong Chan Chae,** Chonbuk National University, Korea

INB-010

Title: Cadmium induces matrix metalloproteinase-9 expression via NADPH Oxidase/ROS-dependent EGFR signals in human endothelial cells

Young Do Jung, Chonnam National Universtiy Medical School, South Korea

INB-011

Title: Regulation of PKC-induced COX-2 expression by sex steroid hormonesin rat granulosa cells

Yuh-Lin Wu, National Yang-Ming University School of Medicine, Taiwan

INB-012

Title: An integrated model of coronary heart disease

Marc Mathews and Edward Mathews, North-West University, RSA

INB-013

Title: pH Actuating Soft-Hydrogel Microparticles

YoungShin Song, Chungnam National University, South Korea

INB-014

Title: Plant extracts as metal chelators for treatment of Alzheimer's disease

Fatma Kazdal, Bezmialem Vakif University, Turkey

INB-015

Title: The biomechanical effect of tamoxifen treatment on the behavior of breast fibroblasts

Jose Ernesto Cortes Lopez, Imperial College London, UK